

Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
16219-002US1Application No.  
10/523,050**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

Applicant  
Sergey A. SelifonovFiling Date  
September 22, 2005Group Art Unit  
1621**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
/KG/	AA	5,652,137	07/29/97	Chang et al.			
	AB	5,763,237	06/09/98	Savithiry et al.			
	AC	5,837,458	11/17/98	Minshull et al.			
	AD	6,083,731	07/04/00	Croteau et al.			
	AE	6,171,820	01/09/01	Short			
	AF	6,194,185	02/27/01	Croteau et al.			
	AG	6,306,280	10/23/01	Reipa et al.			
	AH	6,342,644	01/29/02	Sayo et al.			
	AI	6,352,859	03/05/02	delCardayre et al.			
↓	AJ	6,440,668	08/27/02	Short			
/KG/	AK	2002/0183934	12/05/02	Selifonov et al.			

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
/KG/	AL	WO 00/09682	02/24/00	WIPO				
/KG/	AM	WO 00/31273	06/02/00	WIPO				

**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
/KG/	AN	GenBank Accession No. AR134847 dated 5/16/01, 2 pages
	AO	GenBank Accession No. AR134848 dated 5/16/01, 2 pages
	AP	GenBank Accession No. AR134849 dated 5/16/01, 2 pages
	AQ	GenBank Accession No. AR134850 dated 5/16/01, 2 pages
	AR	Bell et al., "Engineering the haem monooxygenase cytochrome P450 <sub>cam</sub> for monoterpene oxidation," <i>Chem. Commun.</i> , 2001, pp. 635-636
	AS	Berger et al., "Phoenix Mutagenesis: One-Step Reassembly of Multiply Cleaved Plasmids with Mixtures of Mutant and Wild-Type Fragments," <i>Anal. Biochem.</i> , 1993, 214:571-579
↓	AT	Crabtree and Davis, "Directing Effects in Homogeneous Hydrogenation with [Ir(cod)(PCy <sub>3</sub> )(py)]PF <sub>6</sub> ," <i>J. Org. Chem.</i> , 1986, 51:2655-2661
/KG/	AU	Dillon and Rosen, "A Rapid Method for the Construction of Synthetic Genes Using the Polymerase Chain Reaction," <i>BioTechniques</i> , 1990, 9(3):298-300

Examiner Signature

/Kellette Gale/

Date Considered

04/13/2007

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 16219-002US1	Application No. 10/523,050
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))		Applicant <b>Sergey A. Selifonov</b>	
		Filing Date <b>September 22, 2005</b>	Group Art Unit <b>1621</b>

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
/KG/	AV	Duetz et al., "Biotransformation of limonene by bacteria, fungi, yeasts, and plants," <u>Appl. Microbiol. Biotechnol.</u> , 2003, 61:269-277
	AW	Haudenschield et al., "Functional Expression of Regiospecific Cytochrome P450 Limonene Hydroxylases from Mint ( <i>Mentha</i> spp.) in <i>Escherichia coli</i> and <i>Saccharomyces cerevisiae</i> ," <u>Arch. Biochem. Biophys.</u> , 2000, 379(1):127-136
	AX	Ho et al., "Site-directed mutagenesis by overlap extension using the polymerase chain reaction," <u>Gene</u> , 1989, 77:51-59
	AY	Horton et al., "Engineering hybrid genes without the use of restriction enzymes: gene splicing by overlap extension," <u>Gene</u> , 1989, 77:61-68
	AZ	Joo et al., "Laboratory evolution of peroxide-mediated Cytochrome P450 hydroxylation," <u>Nature</u> , 1999, 399(6737):670-673
	AAA	Karp et al., "Monoterpene Biosynthesis: Specificity of the Hydroxylations of (-)-Limonene by Enzyme Preparations from Peppermint ( <i>Mentha piperita</i> ), Spearmint ( <i>Mentha spicata</i> ), and Perilla ( <i>Perilla frutescens</i> ) Leaves," <u>Arch. Biochem. Biophys.</u> , 1990, 276(1):219-226
	ABB	Leffingwell and Shackelford, "Laevo-menthol--syntheses and organoleptic properties," <u>Cosmetics and Perfumery</u> , 1974, 89(6):69-75
	ACC	Lupien et al., "Regiospecific Cytochrome P450 Limonene Hydroxylases from Mint ( <i>Mentha</i> ) Species: cDNA Isolation, Characterization, and Functional Expression of (-)-4S-Limonene-3-hydroxylase and (-)-4S-Limonene-6-hydroxylase," <u>Arch. Biochem. Biophys.</u> , 1999, 368(1):181-192
	ADD	Noma et al., "Biotransformation of Limonene and Related Compounds by <i>Aspergillus cellulosa</i> ," <u>Phytochemistry</u> , 1992, 31(8):2725-2727
	AEE	Prodromou and Pearl, "Recursive PCR: a novel technique for total gene synthesis," <u>Protein Engineering</u> , 1992, 5(8):827-829
	AFF	Schalk and Croteau, "A single amino acid substitution (F363I) converts the regiochemistry of the spearmint (-)-limonene hydroxylase from a C6- to a C3-hydroxylase," <u>Proc. Natl. Acad. Sci. USA</u> , 2000, 97(22):11948-11953
	AGG	van Dyk et al., "Hydroxylation of (+)limonene, (-) $\alpha$ -pinene and (-) $\beta$ -pinene by a <i>Hormonema</i> sp.," <u>Biotechnology Letters</u> , 1998, 20(4):431-436
	AHH	van Rensburg et al., "Biotransformation of (+)limonene and (-)piperitone by yeasts and yeast-like fungi," <u>Biotechnology Letters</u> , 1997, 19(8):779-782
↓ /KG/	AII	Wüst and Croteau, "Hydroxylation of Specifically Deuterated Limonene Enantiomers by Cytochrome P450 Limonene-6-Hydroxylase Reveals the Mechanism of Multiple Product Formation," <u>Biochemistry</u> , 2002, 41:1820-1827

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